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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,002	06/07/2006	Manabu Watanabe	Q95278	8934
23373 7590 03/24/2009 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
			CHOWDHURY, IQBAL HOSSAIN	
SUITE 800 WASHINGTO	N, DC 20037		ART UNIT	PAPER NUMBER
			1652	
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## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/582,002	WATANABE ET AL.			
Office Action Summary	Examiner	Art Unit			
	IQBAL H. CHOWDHURY	1652			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>07 July</u> 2a) This action is <b>FINAL</b> . 2b) This 3) Since this application is in condition for allowangles of the practice under <u>Bully</u> .	action is non-final.  nce except for formal matters, pro				
Disposition of Claims					
4)  Claim(s) <u>1-20</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) <u>1-20</u> are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and all accomposed and all accomposed and accomposed accomposed and accomposed and accomposed and accomposed and accomposed and accomposed and accomposed accomposed accomposed and accomposed accomposed accomposed accomposed accomposed accomposed accomposed accomposed accomposed and accomposed	epted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	ate			

## **DETAILED ACTION**

## Election/Restrictions

This application is a 371 of PCT/JP04/18184.

Claims 1-20 are pending.

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group, I claim(s) 1-4, 17-18, drawn to a method for suppressing a reduction in endoglucanase activity in the presence of a surfactant by a modified protein in which one or plural amino acids are deleted, substituted, inserted or added in the amino acid sequence of SEQ ID NOs: 2, 4, 38 and 40 having the endoglucanase activity in which the N-terminus is an amino acid other than pyroglutamic acid, wherein the protein is family 45 cellulase.

Group, II claim(s) 5-6, 7, 16, 19-20, drawn to a protein or a modified protein in which one or plural amino acids are deleted, substituted, inserted or added in the amino acid sequence of SEQ ID NOs: 2, 4, 38 and 40 having an endoglucanase activity, wherein the N-terminal amino acid is pyroglutamic acid.

Group, III claim(s) 8-15, drawn to a polynucleotide encoding a protein or modified protein in which one or plural amino acids are deleted, substituted, inserted or added in

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the amino acid sequence of SEQ ID NOs: 2, 4, 38 and 40 having an endoglucanase activity, wherein the N-terminal amino acid is pyroglutamic acid.

- 2. The inventions listed as Groups I - III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The special technical feature for the inventions of Groups I-III is the endoglucanase with a pyroglutamic acid residue at the N-terminus... Endoglucanase with a pyroglutamic acid residue at the Nterminus is known in the prior art, see for example Maeda et al. Biosci. Biotech. Biochem. 60(11), 122-124, 1996, and WO 94/07998, publication 4/14/1994. In particular, Maeda et al. clearly show a cellulase having cellobiohydrolase activity having N-terminal pyroglutamic acid with N-terminal amino acid sequence (page 123, paragraph 3 and page 124, paragraph 1 and 2). It should be noted that an endogluconase with pyroglutamic acid residue at the N-terminus isolated from a biological source metes the limitation of the the endogluconase of claim 5 because one of ordinary skill in the art cannot distinguish between two molecules prepared by two different methods. Thus, it is not a "special technical feature" as defined by PCT Rule 13.2 as it does not define a contribution over the art. Modified cellobiohydrolase, an endoglucanase or cellulase having N-terminal pyroglutamic acid and nucleic acid encoding said polypeptide is known in the art
- 3. A method for suppressing a reduction in endonuclease in the presence of a surfactant by a modified protein of Group I does not share any "special technical

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feature" with Group III as the polynucleotides of Group III are neither made nor used by the methods of Group I.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised

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that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iqbal Chowdhury whose telephone number is 571-272-8137. The examiner can normally be reached on 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nashaat T. Nashed can be reached on 571-272-8137. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Iqbal H. Chowdhury, Patent Examiner Art Unit 1652

/Nashaat T. Nashed/ Supervisory Patent Examiner, Art Unit 1652